

**ABSTRACT**

A method of assembling an ink filtration system in fluid communication with an ink source comprising the steps of: (a) providing a printhead base including at least one ink channel in fluid communication with at least one nozzle; (b) positioning an ink filter in fluid communication with at least the one ink channel of the printhead base; and (c) laser welding the ink filter in series with the printhead base to provide a sealed fluidic interface therebetween ensuring that ink within at least the one ink channel has passed through the ink filter. Also disclosed are methods and resulting apparatuses utilizing laser welding to mount components of an ink cartridge for use with an inkjet printer.